

**2007 UPDATE TO THE STATE OF MONTANA  
MULTI-HAZARD MITIGATION PLAN AND  
STATEWIDE HAZARD ASSESSMENT**

**APPENDIX G**

**DISTRICT 6 DOCUMENTATION**

*Meeting Sign-in Sheets*  
*Meeting Minutes*  
*Survey Results*  
*Mitigation Projects*

**NORTHEAST MONTANA JURISDICTIONS**

Daniels County  
Fergus County  
Fort Peck Reservation  
Judith Basin County  
Petroleum County  
Phillips County  
Roosevelt County  
Sheridan County  
Valley County

**2007 UPDATE TO THE STATE OF MONTANA  
MULTI-HAZARD MTIGATION PLAN AND  
STATEWIDE HAZARD ASSESSMENT**

**Meeting Sign-in Sheets**

# MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 3/29/07

LOCATION: Wolf Point - District 6

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
Daphne Digrindakis	Tetra Tech		daphne.digrindakis@tetratech.com
Richard D. Seibon	Valley County DES	100 miles	rseibon@co.valley.mt.us 406-228-2850
Tanja Fransen	NWS Glasgow	100 miles	tanja.fransen@noaa.gov
Staci Green	Herald-News	0	653-2222
Dana Buckles	Fort Peck Tribes / TERC	48	shungaska@yahoo.com 768-5322
Linda Connor	FPT - OEP	48	lweeks@nemont.net
Deb Madison	" "	48	2horses@nemont.net
KENT ARWOOD	MT - DES	600	Katwood@mt.gov
Mary Nyhus			danieloph@nemont.net
Arlene Twitchell	Co. Health Dept. -		dtwitchell@mt.gov
Nancy Lemmon	RCHD		nlemmon@mt.gov
Leslie Boor	RCHD		lboor@mt.gov

Meeting State Time: 10:15

Meeting End Time: 1:00

# MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 3/30/07

LOCATION: Lewistown - Dist. 6

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
Daphne Digrindakis	Tetra Tech		Daphne.Digrindakis@tetratech.com
Serry Brzezinski	PIO Fergus Co.		news@KXLD-KLCH.COM
KENT ATWOOD	MT - DES	700	Katwood@mt.gov
John Jensen	Fergus Co Commissioner		Commissioners@co.fergus.mt.us
Cheri Kilby	Fergus Co DES		des@co.fergus.mt.us

Meeting State Time: 9:10

Meeting End Time: 11:00

**2007 UPDATE TO THE STATE OF MONTANA  
MULTI-HAZARD MTIGATION PLAN AND  
STATEWIDE HAZARD ASSESSMENT**

**Meeting Minutes**

**UPDATE TO THE STATE OF MONTANA PDM  
PLAN AND HAZARD ASSESSMENT  
PUBLIC MEETING MINUTES**

**Date:** Thursday, March 29, 2007

**Time:** 10:10 am – 1:00 pm

**Place:** Wolf Point, Montana

**Meeting Attendance:**

Richard D. Seilou, Valley County DES

Tanja Fransen, NWS Glasgow

Staci Green, Herald News

Dana Buckles, Fort Peck Tribes – Tribal Emergency Response Committee

Linda Connor, Fort Peck Tribes – Office of Environmental Protection

Deb Madison, Fort Peck Tribes – Office of Environmental Protection

Mary Nyhus

Darlene Twitchell, County Health Department

Nancy Demoro, Roosevelt County Health Department

Leslie Boor, Roosevelt County Health Department

Perry Brzezinski, PIO Fergus County

John Jenson, Fergus County Commissioner

Cheri Kilby, Fergus County DES

Kent Atwood, State of Montana – DES

Larry Akers, Contractor

Daphne Digrindakis, Contractor

**HAZARDS AFFECTING DISTRICT 6**

***Meeting Discussion on Hazards Affecting District 6***

Possible addition of biological hazard. Participants did not feel strongly about adding this as a hazard but did express concern over Shigella bacteria and Norovirus. Children in Valley County have had a lot of illness recently. It was suggested that the Dept. of Agriculture and Public Health be consulted at the April 19<sup>th</sup> Stakeholder meeting and possibly insert a biological hazard into the State PDM Plan.

Participants ranked the top three hazards for District 6 as follows: 1. Winterstorms, 2. Wildfire and Drought (tied for second), 3. Severe Thunderstorms, Hail, Wind and Tornadoes.

Counties also noted that wildfire and drought are related.

**ASSESSMENT OF HAZARDS – DISTRICT 6**

***Drought***

Judith Basin – Change Low to Medium

Fergus – No Approved Plan

Petroleum – Change Medium to High  
Phillips – Change Low to High  
Valley – Change Low to Medium  
Daniels – Change Not Assessed to Medium  
Sheridan – Change Low to Medium  
Roosevelt – Change Low to Medium  
Fort Belknap Reservation – Change from Low to High (during Havre meeting)  
Fort Peck Reservation – Change Low to Medium

Participants noted that all counties are rated low risk for drought except Petroleum County which is rated medium. Should drought be upgraded to high risk? Sheridan and Roosevelt counties are definitely experiencing drought and should be upgraded to medium risk. Discussion concluded with recommendation that all counties in District 6 be upgraded to medium risk. However, Phillips and Petroleum are thought to be at high risk for drought as these counties have experienced wildfires in the recent past.

It was noted that drought assessment should be based upon an examination of climate data. People may perceive a drought as high when the climate data indicates a moderate drought.

### ***Earthquake***

Judith Basin – Low  
Fergus – No Approved Plan  
Petroleum – Not Assessed  
Phillips – Low  
Valley – Low  
Daniels – Low  
Sheridan – Change Low to Medium  
Roosevelt – Low  
Fort Belknap Reservation – Low  
Fort Peck Reservation – Low

All counties are correct with a low risk rating. The exception is Sheridan County where a fault line produced a 4.0 earthquake. This county could be upgraded to medium.

### ***Flood***

Judith Basin – High  
Fergus – No Approved Plan  
Petroleum – Medium  
Phillips – High  
Valley – High  
Daniels – Change High to Medium  
Sheridan – High  
Roosevelt – High  
Fort Belknap Reservation – High  
Fort Peck Reservation – High

It was noted that Daniels County has had some flooding but generally no people are at risk so the rating should be changed to medium. Roosevelt County has Brockton flooding issues and Valley and Roosevelt (north of Frazier) counties have had flash floods. Additionally, the Milk River has had ice jams and flooding. However, there are not a lot of people to affect a positive benefit-cost analysis.

***Hazardous Material Incident***

Judith Basin – High  
Fergus – No Approved Plan  
Petroleum – Low  
Phillips – High  
Valley – Medium  
Daniels – Medium  
Sheridan – Medium  
Roosevelt – Change Medium to High  
Fort Belknap Reservation – Medium  
Fort Peck Reservation – Change Medium to High

Participants noted that Judith Basin and Phillips counties are rated high risk for this hazard while the remaining counties are rated medium. Fort Peck Reservation and Roosevelt County should probably be rated high risk as Poplar has a huge plume of oily salt water causing groundwater contamination. The plume is moving about three feet a day towards a Poplar aquifer of 40-60 ft deep. Can the county/tribes get a Community Block Development Grant or Dry Prairie Grant to address this matter? It was suggested that a possible PDMC project, jointly with the Fort Peck Tribes and Roosevelt County, would develop a backup critical infrastructure public water source (from the Missouri River) for Poplar. The project would be drought-related, not a hazardous material incident project.

***Landslide***

Judith Basin – Not Assessed  
Fergus – No Approved Plan  
Petroleum – Not Assessed  
Phillips – Not Assessed  
Valley – Not Assessed  
Daniels – Not Assessed  
Sheridan – Not Assessed  
Roosevelt – Not Assessed  
Fort Belknap Reservation – Not Assessed  
Fort Peck Reservation – Not Assessed

Counties did not suggest any changes for this hazard.

***Severe Thunderstorms, Hail, Wind and Tornadoes***

Judith Basin – High



Fergus – No Approved Plan  
Petroleum – High  
Phillips – High  
Valley – High  
Daniels – High  
Sheridan – High  
Roosevelt – High  
Fort Belknap Reservation – Change Medium to High (during Cut Bank meeting)  
Fort Peck Reservation – High

Participants noted that the Fort Belknap risk rating should be upgraded to high. District 6 has experienced many severe summer weather events. In June 2005, heavy rain washed out bridges in Valley and McCone County. In July 2005, severe wind blew trains off tracks, primarily in Roosevelt County. In May, 2006, Horse Creek overflowed and caused flooding in McCone County. Additionally, the district has experienced many severe hail events. It was suggested that information be gathered from the Storm Events database and inserted into the State PDM Plan.

### ***Terrorism and Violence***

Judith Basin – Low  
Fergus – No Approved Plan  
Petroleum – Not Assessed  
Phillips – Change Low to Medium  
Valley – Medium  
Daniels – Medium  
Sheridan – Medium  
Roosevelt – Medium  
Fort Belknap Reservation – Low  
Fort Peck Reservation – Medium

It was noted that Phillips County has a high risk rating for Hazardous Material Incident but a low risk rating for Terrorism and Violence. Participants found this strange as it seems the high volume of traffic crossing the Canadian border would make Phillips County susceptible to terrorism and violence. Phillips County should upgrade their risk rating to medium for this hazard. Other possible targets for terrorism and violence in District 6 include a major pipeline running through Daniels and Roosevelt counties and all railroad and highway transportation corridors.

### ***Volcanic Eruption***

Judith Basin – Change Not Assessed to Low  
Fergus – No Approved Plan  
Petroleum – Low  
Phillips – Change Not Assessed to Low  
Valley – Change Not Assessed to Low  
Daniels – Change Not Assessed to Low  
Sheridan – Change Not Assessed to Low

Roosevelt – Change Not Assessed to Low  
Fort Belknap Reservation – Change Not Assessed to Low  
Fort Peck Reservation – Change Not Assessed to Low

Only concern discussed for this hazard is the Yellowstone caldera. District 6 is on the fringe of the caldera and could receive some ashfall. All counties in the district should be upgraded to low risk.

***Wildfire***

Judith Basin – High  
Fergus – No Approved Plan  
Petroleum – High  
Phillips – High  
Valley – High  
Daniels – High  
Sheridan – High  
Roosevelt – High  
Fort Belknap Reservation – High  
Fort Peck Reservation – High

No changes required as risk ratings seem correct.

***Winterstorms***

Judith Basin – High  
Fergus – No Approved Plan  
Petroleum – High  
Phillips – High  
Valley – High  
Daniels – High  
Sheridan – High  
Roosevelt – High  
Fort Belknap Reservation – High  
Fort Peck Reservation – High

Participants did not suggest any changes for this hazard.

**ASSESSMENT OF STATE GOALS – DISTRICT 6**

**Goal 1: Maximize the use of mitigation actions that prevent losses from all hazards.**

**Goal 2: Increase State’s capability to provide mitigation opportunities.**

**Goal 3: Mitigate the potential loss of life and property from flooding.**

**Goal 4: Reduce the community impacts of wildland and rangeland fires.**

Wildfire is a high priority and the counties felt it should be ranked above flooding.

**Goal 5: Reduce potential earthquake losses in Western Montana.**

**Goal 6: Minimize economic impacts of drought.**

Participants stated that drought has a higher priority goal than earthquakes or flooding and should be moved up to reflect its high priority.

**Goal 7: Reduce impacts from severe winter weather.**

**Goal 8: Encourage mitigation of potentially devastating but historically less frequent hazards.**

Counties felt that Severe Thunderstorms, Hail, Wind and Tornadoes should be separated from Goal 8 and be an individual goal.

### **OTHER COMMENTS**

Fort Peck Reservation is concerned about housing growth north of Poplar. This is the area where a large plume of oily salt water has caused groundwater contamination.

Participants also discussed a potential acquisition project that concerns an auto salvage yard in the floodplain of the Poplar River near Poplar. The owner does not salvage toxic materials from the cars and the yard is located in an area of high flood risk.

Counties in District 6 have completed the following projects presented in their local PDM plans:

- Sheridan, Roosevelt, Richland and Petroleum counties and the Fort Peck Reservation are now Stormready Communities (Dawson and Prairie are working on this).
- A total of 250 weather radios have been distributed across Roosevelt County and the Fort Peck Reservation.
- A camera has been placed on Fort Peck Dam to help warn boaters to get off the lake during high winds.
- Install a repeater in Opheim.
- The cities of Brockton, Frazer, Poplar and Wolf Point are now in the National Flood Insurance Program.
- Obtain sirens for Frazer and Ft. Kipp.
- Fences have been installed around water supplies in Frasier.

The counties discussed the following projects that need to be completed:

- Distribute weather radios to all public schools (all across Montana as well).
- Put up MDT road sign in an area just east of Brockton that has a serious flood risk. The road sign would read “Turn Around-Don’t Drown”.
- It was observed that the Drought Advisory Committee bought several drought sensors. Could the State Plan make a PDM project or strategy out of this to accurately collect drought data?

Discussion also focused on the identification of any State owned land or facilities that needed mitigation. Culbertson has a FWP building that is at risk for flooding at the 17 ft flood stage; however, it was noted that the building may be protected by the Fort Peck Dam. Additionally, an unnamed, new state park was identified for possible fuel mitigation.

**UPDATE TO THE STATE OF MONTANA PDM  
PLAN AND HAZARD ASSESSMENT  
PUBLIC MEETING MINUTES**

**Date:** Friday, March 30, 2007

**Time:** 9:10 am – 11:00 am

**Place:** Lewistown, Montana

**Meeting Attendance:**

Perry Brzezinski, PIO Fergus County

John Jenson, Fergus County Commissioner

Cheri Kilby, Fergus County DES

Kent Atwood, State of Montana – DES

Larry Akers, Contractor

Daphne Digrindakis, Contractor

**HAZARDS AFFECTING DISTRICT 6**

***Meeting Discussion on Hazards Affecting District 6***

Lewistown participants felt that the top three hazards for Fergus County were as follows:

1. Drought and Wildfire (tied for first), 2. Winterstorms, 3. Flooding

Possible addition of a communicable diseases hazard. Fergus County felt that with their livestock and agricultural industry, the addition of this hazard is appropriate.

Participants also discussed growth in Fergus County. Over the last 15 years, 40-70 lots per year have been developed. However, last year, the number jumped to over 430 lots. The lots are being developed primarily in risk areas like the WUI and in/or near the floodplains and inundation areas. In the town of Moore, the PeaVey Corp. is upgrading to a 110 car loading facility that will possibly block both entrances into town.

**ASSESSMENT OF HAZARDS – DISTRICT 6**

***Drought***

Judith Basin – Change Low to Medium (during Wolf Point meeting)

Fergus – Change No Approved Plan to Medium

Petroleum – Change Medium to High (during Wolf Point meeting)

Phillips – Change Low to High (during Wolf Point meeting)

Valley – Change Low to Medium (during Wolf Point meeting)

Daniels – Change Not Assessed to Medium (during Wolf Point meeting)

Sheridan – Change Low to Medium (during Wolf Point meeting)

Roosevelt – Change Low to Medium (during Wolf Point meeting)

Fort Belknap Reservation – Change from Low to High (during Havre meeting)

Fort Peck Reservation – Change Low to Medium (during Wolf Point meeting)

Fergus County felt that the northern half of the county is more drought affected than the southern half; the areas are actually split along the township lines. Participants suggested that the County should be rated as medium risk for drought but would like confirmation of this rating during the pending PDM Plan process.

***Earthquake***

Judith Basin – Low

Fergus – Change No Approved Plan to Low

Petroleum – Not Assessed

Phillips – Low

Valley – Low

Daniels – Low

Sheridan – Change Low to Medium (during Wolf Point meeting)

Roosevelt – Low

Fort Belknap Reservation – Low

Fort Peck Reservation – Low

Representatives from Fergus County suggested a low risk rating for earthquakes and requested that this rating be confirmed during the pending PDM Plan process.

***Flood***

Judith Basin – High

Fergus – Change No Approved Plan to Medium

Petroleum – Medium

Phillips – High

Valley – High

Daniels – Change High to Medium (during Wolf Point meeting)

Sheridan – High

Roosevelt – High

Fort Belknap Reservation – High

Fort Peck Reservation – High

Fergus participants noted that the town of Moore may have a flood problem due to undersized culverts. There was some flooding last year but it was not significant as the county is in a drought cycle. Fergus County and the Spring Creek area have mitigation work in process and many of the problems in the County now appear to be contained. A recent tabletop exercise that examined failure of the Eastport Dam indicated that a large group of homes on the way to Lewistown are in the inundation area. Participants felt that it was difficult to speculate on whether growth is occurring in Fergus County. A medium risk rating was suggested for flooding with confirmation of rating to be obtained at pending PDM Plan process.

***Hazardous Material Incident***

Judith Basin – High

Fergus – Change No Approved Plan to High

Petroleum – Low

Phillips – High  
Valley – Medium  
Daniels – Medium  
Sheridan – Medium  
Roosevelt – Change Medium to High (during Wolf Point meeting)  
Fort Belknap Reservation – Medium  
Fort Peck Reservation – Change Medium to High (during Wolf Point meeting)

Fergus County has a lot of concerns with this hazard. Concern is focused not so much on the railroad but on the major pipelines and transportation corridors (roads) that run through the county. Missile silos may not be a target for terrorists but the large population centers probably are. Overall, Montana probably has low risk for this hazard due to the state's low density population. However, Fergus County felt that with their transportation corridors and larger population centers, they are at high risk for a hazardous material incident. This rating will be confirmed at pending PDM Plan process.

### ***Landslide***

Judith Basin – Not Assessed  
Fergus – Change No Approved Plan to Low  
Petroleum – Not Assessed  
Phillips – Not Assessed  
Valley – Not Assessed  
Daniels – Not Assessed  
Sheridan – Not Assessed  
Roosevelt – Not Assessed  
Fort Belknap Reservation – Not Assessed  
Fort Peck Reservation – Not Assessed

Fergus County felt that a low risk rating for landslides is appropriate. There are problems in Arrow Creek, west of Denton; the slide area north of Bohemian Corners; and the new road on Clagget Hill, north of Winifred. This type of hazard appears to be fairly localized to the area north of the breaks with transportation corridors causing disruption.

### ***Severe Thunderstorms, Hail, Wind and Tornadoes***

Judith Basin – High  
Fergus – Change No Approved Plan to High  
Petroleum – High  
Phillips – High  
Valley – High  
Daniels – High  
Sheridan – High  
Roosevelt – High  
Fort Belknap Reservation – Change Medium to High (during Cut Bank meeting)  
Fort Peck Reservation – High

Fergus County participants felt that a high risk rating is correct.

### ***Terrorism and Violence***

Judith Basin – Low  
Fergus – Change No Approved Plan to Low  
Petroleum – Not Assessed  
Phillips – Change Low to Medium (during Wolf Point meeting)  
Valley – Medium  
Daniels – Medium  
Sheridan – Medium  
Roosevelt – Medium  
Fort Belknap Reservation – Low  
Fort Peck Reservation – Medium

A low risk rating was proposed by Fergus County with confirmation of this rating during the pending PDM Plan process.

### ***Volcanic Eruption***

Judith Basin – Change Not Assessed to Low (during Wolf Point meeting)  
Fergus – Change No Approved Plan to Low  
Petroleum – Low  
Phillips – Change Not Assessed to Low (during Wolf Point meeting)  
Valley – Change Not Assessed to Low (during Wolf Point meeting)  
Daniels – Change Not Assessed to Low (during Wolf Point meeting)  
Sheridan – Change Not Assessed to Low (during Wolf Point meeting)  
Roosevelt – Change Not Assessed to Low (during Wolf Point meeting)  
Fort Belknap Reservation – Change Not Assessed to Low (during Wolf Point meeting)  
Fort Peck Reservation – Change Not Assessed to Low (during Wolf Point meeting)

Representatives from Fergus County discussed the possibility of the Yellowstone caldera and ashfall being a concern for the county. A low risk rating, like the rest of District 6, was proposed for Fergus County.

### ***Wildfire***

Judith Basin – High  
Fergus – Change No Approved Plan to High  
Petroleum – High  
Phillips – High  
Valley – High  
Daniels – High  
Sheridan – High  
Roosevelt – High  
Fort Belknap Reservation – High  
Fort Peck Reservation – High

Fergus County felt that a high risk rating is appropriate.



### ***Winterstorms***

Judith Basin – High

Fergus – Change No Approved Plan to High

Petroleum – High

Phillips – High

Valley – High

Daniels – High

Sheridan – High

Roosevelt – High

Fort Belknap Reservation – High

Fort Peck Reservation – High

A high risk rating for winterstorms was proposed for Fergus County.

## **ASSESSMENT OF STATE GOALS – DISTRICT 6**

**Goal 1: Maximize the use of mitigation actions that prevent losses from all hazards.**

**Goal 2: Increase State’s capability to provide mitigation opportunities.**

**Goal 3: Mitigate the potential loss of life and property from flooding.**

**Goal 4: Reduce the community impacts of wildland and rangeland fires.**

Fergus County felt that an important objective is to work with the BLM and USFS on fuels reduction projects. Specifically, they suggested a possible fuels reduction mitigation project on USFS land around Crystal Lake.

**Goal 5: Reduce potential earthquake losses in Western Montana.**

**Goal 6: Minimize economic impacts of drought.**

Fergus County thinks that Drought and Wildfire, followed by flooding, should be a higher priority goal above earthquakes.

**Goal 7: Reduce impacts from severe winter weather.**

**Goal 8: Encourage mitigation of potentially devastating but historically less frequent hazards.**

Possible landslide mitigation project in the northern part of the county.

## **OTHER COMMENTS**

Representatives from Fergus County asked if it was possible to get their PDM Plan incorporated into the State PDM Plan update as their plan may not be ready to submit to the State in mid-November. The State and Contractor agreed to figure out a way to get Fergus County draft information into the State Plan. A second issue discussed was how to get local plan updates (annual/biannual) into the State PDM Plan (interactive) document.

Fergus County felt that State goals should establish which districts are concern areas for each hazard. For example, districts 1 and 3 would be an area of concern for earthquakes.

Additionally, Fergus County does not have a list of mitigation projects yet but the county will look to neighboring plans (like districts 2 and 5) for ideas.

**2007 UPDATE TO THE STATE OF MONTANA  
MULTI-HAZARD MTIGATION PLAN AND  
STATEWIDE HAZARD ASSESSMENT**

**On-Line Survey Results**

What jurisdiction type do you represent?			
		Response Percent	Response Count
Federal	<div><div></div></div>	8.3%	1
State		0.0%	0
County	<div><div></div></div>	75.0%	9
Tribal	<div><div></div></div>	8.3%	1
Public Utility	<div><div></div></div>	8.3%	1
General Public		0.0%	0
Other (please specify)		0.0%	0
answered question			12
skipped question			0

What County/Tribal Community do you represent or as a private citizen where do you live?			
		Response Percent	Response Count
Blackfeet		0.0%	0
Crow		0.0%	0
Flathead		0.0%	0
Fort Belknap		0.0%	0
Fort Peck	<div><div></div></div>	8.3%	1
Northern Cheyenne		0.0%	0
Rocky Boy's		0.0%	0
Beaverhead		0.0%	0
Big Horn		0.0%	0
Blaine		0.0%	0
Broadwater		0.0%	0
Carbon		0.0%	0
Carter		0.0%	0
Cascade		0.0%	0
Chouteau		0.0%	0

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Custer		0.0%	0
Daniels	<div></div>	8.3%	1
Dawson		0.0%	0
Deer Lodge		0.0%	0
Fallon		0.0%	0
Fergus	<div></div>	33.3%	4
Flathead		0.0%	0
Gallatin		0.0%	0
Garfield		0.0%	0
Glacier		0.0%	0
Golden Valley		0.0%	0
Granite		0.0%	0
Hill		0.0%	0
Jefferson		0.0%	0
Judith Basin	<div></div>	8.3%	1
Lake		0.0%	0
Lewis And Clark		0.0%	0
Liberty		0.0%	0
Lincoln		0.0%	0
Madison		0.0%	0
McCone		0.0%	0
Meagher		0.0%	0
Mineral		0.0%	0
Missoula		0.0%	0
Musselshell		0.0%	0
Park		0.0%	0
Petroleum	<div></div>	8.3%	1
Phillips		0.0%	0
Pondera		0.0%	0
Powder River		0.0%	0
Powell		0.0%	0

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Prairie		0.0%	0
Ravalli		0.0%	0
Richland		0.0%	0
Roosevelt	<div></div>	8.3%	1
Rosebud		0.0%	0
Sanders		0.0%	0
Sheridan	<div></div>	8.3%	1
Silver Bow		0.0%	0
Stillwater		0.0%	0
Sweet Grass		0.0%	0
Teton		0.0%	0
Toole		0.0%	0
Treasure		0.0%	0
Valley	<div></div>	16.7%	2
Wheatland		0.0%	0
Wibaux		0.0%	0
Yellowstone		0.0%	0
Other		0.0%	0
	answered question		12
	skipped question		0

Have you seen or read the State of Montana Multi-Hazard Mitigation Plan and Statewide Hazard Assessment.			
		Response Percent	Response Count
Yes	<div></div>	41.7%	5
No	<div></div>	58.3%	7
	answered question		12
	skipped question		0

How would you rate the overall quality and content of the plan.			
		Response Percent	Response Count
1 - Poor		0.0%	0
2		0.0%	0
3 - Average	<div></div>	42.9%	3
4	<div></div>	14.3%	1
5 - Excellent	<div></div>	42.9%	3
	answered question		7
	skipped question		5

Do you feel the plan accurately portrays natural and man-made hazards in Montana?			
		Response Percent	Response Count
Yes	<div></div>	100.0%	7
No		0.0%	0
	answered question		7
	skipped question		5

What improvements do you think could be made to the plan?		
		Response Count
		5
	answered question	5
	skipped question	7

From the perspective of the jurisdiction that you represent or permanently reside in, how do you perceive the risk to each of the following hazards: Risk is defined as the potential to affect people, environment, economy and property of your jurisdiction. High/Medium/Low for:					
	High	Medium	Low	Rating Average	Response Count
Communicable Disease	25.0% (3)	50.0% (6)	25.0% (3)	2.00	12
Drought	91.7% (11)	8.3% (1)	0.0% (0)	1.08	12
Earthquake	0.0% (0)	25.0% (3)	75.0% (9)	2.75	12
Flooding/Dam Failure	33.3% (4)	16.7% (2)	50.0% (6)	2.17	12
Hazardous Material Incidents	41.7% (5)	41.7% (5)	16.7% (2)	1.75	12
Landslide	0.0% (0)	25.0% (3)	75.0% (9)	2.75	12
Terrorism/Violence	0.0% (0)	25.0% (3)	75.0% (9)	2.75	12
Thunderstorm Wind, Hail, and Tornadoes	75.0% (9)	25.0% (3)	0.0% (0)	1.25	12
Volcanic Eruption	0.0% (0)	8.3% (1)	91.7% (11)	2.92	12
Wildfire	83.3% (10)	16.7% (2)	0.0% (0)	1.17	12
Winter Storms/Avalanche	75.0% (9)	16.7% (2)	8.3% (1)	1.33	12
	answered question				12
	skipped question				0



Please comment on the impact that future development will have on the hazards listed from the perspective of your jurisdiction.			
		Response Percent	Response Count
Communicable Disease	<div></div>	88.9%	8
Drought	<div></div>	100.0%	9
Earthquake	<div></div>	66.7%	6
Flooding/Dam Failure	<div></div>	77.8%	7
Hazardous Material Incidents	<div></div>	66.7%	6
Landslide	<div></div>	66.7%	6
Terrorism/Violence	<div></div>	66.7%	6
Thunderstorm Wind, Hail, and Tornadoes	<div></div>	77.8%	7
Volcanic Eruption	<div></div>	66.7%	6
Wildfire	<div></div>	88.9%	8
Winter Storms/Avalanche	<div></div>	77.8%	7
	answered question		9
	skipped question		3

Please prioritize the following proposed NEW goals for the State Plan Update by order of importance from the perspective of your jurisdiction (1=highest / 10=lowest):											
	High				Medium					Low	Rating Average
Maximize the Use of Mitigation Actions that Prevent Losses from All Hazards	45.5% (5)	9.1% (1)	18.2% (2)	9.1% (1)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	9.1% (1)	2.91
Increase State’s Capability to Provide and Assist Locals with Mitigation Opportunities	18.2% (2)	45.5% (5)	9.1% (1)	9.1% (1)	18.2% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.64
Reduce the Community Impacts of Wildland and Rangeland Fires	27.3% (3)	27.3% (3)	18.2% (2)	0.0% (0)	18.2% (2)	0.0% (0)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	3.00
Mitigate the Potential Loss of Life and Property from Flooding (riverine flooding, ice jams, dam failure)	18.2% (2)	18.2% (2)	9.1% (1)	9.1% (1)	27.3% (3)	0.0% (0)	0.0% (0)	9.1% (1)	9.1% (1)	0.0% (0)	4.09
Minimize Economic Impacts of Drought	27.3% (3)	36.4% (4)	18.2% (2)	0.0% (0)	18.2% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.45
Reduce Impacts from Severe Summer Weather (thunderstorm wind, hail, tornadoes)	36.4% (4)	27.3% (3)	18.2% (2)	0.0% (0)	0.0% (0)	9.1% (1)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	2.73
Reduce Impacts from Severe Winter Weather (extreme cold, snow, ice)	36.4% (4)	27.3% (3)	9.1% (1)	9.1% (1)	0.0% (0)	0.0% (0)	9.1% (1)	9.1% (1)	0.0% (0)	0.0% (0)	2.91
Reduce Potential Earthquake Losses in Western Montana	0.0% (0)	40.0% (4)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	40.0% (4)	6.20
Reduce Losses from Hazardous Material Incidents	18.2% (2)	9.1% (1)	9.1% (1)	9.1% (1)	27.3% (3)	0.0% (0)	0.0% (0)	9.1% (1)	0.0% (0)	18.2% (2)	4.91
Encourage Mitigation of Potentially Devastating but Historically Less Frequent Hazards	0.0% (0)	27.3% (3)	0.0% (0)	18.2% (2)	18.2% (2)	9.1% (1)	0.0% (0)	9.1% (1)	9.1% (1)	9.1% (1)	5.18
	answered question										
	skipped question										

Please indicate any additional Goals you think should be added to the State Plan.	
	Response Count
	4
	answered question 4
	skipped question 8

Goal: Maximize the use of mitigation actions that prevent losses from all hazards.											
	High				Medium					Low	Rating Average
Develop GIS databases of hazard risk maps and state buildings and infrastructure to use in mitigation planning	18.2% (2)	9.1% (1)	27.3% (3)	9.1% (1)	18.2% (2)	0.0% (0)	18.2% (2)	0.0% (0)	0.0% (0)	0.0% (0)	3.73
Conduct Level 1 HAZUS-MH analyses for all Montana counties	9.1% (1)	18.2% (2)	27.3% (3)	9.1% (1)	9.1% (1)	0.0% (0)	0.0% (0)	27.3% (3)	0.0% (0)	0.0% (0)	4.27
Improve Statewide HAZUS data	9.1% (1)	45.5% (5)	18.2% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	18.2% (2)	9.1% (1)	0.0% (0)	3.82
Determine GPS locations of all State buildings for detailed, non-public analysis	0.0% (0)	9.1% (1)	27.3% (3)	27.3% (3)	9.1% (1)	0.0% (0)	0.0% (0)	18.2% (2)	0.0% (0)	9.1% (1)	4.91
Conduct a non-public hazard assessment that utilizes specific State building locations and infrastructure locations to be used for mitigation actions and homeland security purposes	10.0% (1)	10.0% (1)	40.0% (4)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	20.0% (2)	0.0% (0)	10.0% (1)	4.50
Promote earth science education of hazards in schools	10.0% (1)	10.0% (1)	20.0% (2)	20.0% (2)	20.0% (2)	0.0% (0)	0.0% (0)	20.0% (2)	0.0% (0)	0.0% (0)	4.30
Conduct a Statewide warning capability assessment	36.4% (4)	27.3% (3)	9.1% (1)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	18.2% (2)	0.0% (0)	0.0% (0)	3.09
Develop a Statewide All-Hazard Emergency Alert System (EAS) plan	54.5% (6)	0.0% (0)	9.1% (1)	0.0% (0)	18.2% (2)	9.1% (1)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.91
Continuously improve hazard assessments and the associated evaluation of vulnerabilities from all hazards.	36.4% (4)	9.1% (1)	27.3% (3)	9.1% (1)	9.1% (1)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.82
Increase the public awareness of hazards	36.4% (4)	18.2% (2)	27.3% (3)	0.0% (0)	9.1% (1)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.64
Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is	27.3% (3)	9.1% (1)	45.5% (5)	9.1% (1)	0.0% (0)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.82
Increase readiness for the protection of life and property during an event	36.4% (4)	18.2% (2)	27.3% (3)	0.0% (0)	9.1% (1)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.64
	answered question										

	<i>skipped question</i>
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Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											2
	<i>answered question</i>										2
	<i>skipped question</i>										10

Goal: Increase State’s capability to provide and assist locals with mitigation opportunities.											
	High				Medium					Low	Rating Average
Continue outreach of mitigation project funding opportunities	<b>40.0%</b> <b>(4)</b>	10.0% (1)	20.0% (2)	0.0% (0)	20.0% (2)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.90
Provide technical assistance with the environmental review process	20.0% (2)	10.0% (1)	<b>40.0%</b> <b>(4)</b>	0.0% (0)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	3.80
Provide technical assistance for project development	18.2% (2)	<b>27.3%</b> <b>(3)</b>	<b>27.3%</b> <b>(3)</b>	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	9.1% (1)	9.1% (1)	0.0% (0)	3.55
Create an electronic database of completed mitigation projects in Montana	<b>18.2%</b> <b>(2)</b>	<b>18.2%</b> <b>(2)</b>	9.1% (1)	9.1% (1)	<b>18.2%</b> <b>(2)</b>	0.0% (0)	9.1% (1)	<b>18.2%</b> <b>(2)</b>	0.0% (0)	0.0% (0)	4.18
Increase the scope and participation of the State Hazard Mitigation Team	9.1% (1)	<b>27.3%</b> <b>(3)</b>	<b>27.3%</b> <b>(3)</b>	0.0% (0)	9.1% (1)	0.0% (0)	9.1% (1)	0.0% (0)	9.1% (1)	9.1% (1)	4.27
Create a private advisory group for mitigation	<b>18.2%</b> <b>(2)</b>	<b>18.2%</b> <b>(2)</b>	9.1% (1)	9.1% (1)	9.1% (1)	9.1% (1)	9.1% (1)	9.1% (1)	9.1% (1)	0.0% (0)	4.36
Streamline mitigation standards in state and/or local subdivision regulations	<b>36.4%</b> <b>(4)</b>	27.3% (3)	18.2% (2)	0.0% (0)	18.2% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.36
Strengthen state and/or local building codes	18.2% (2)	<b>36.4%</b> <b>(4)</b>	27.3% (3)	0.0% (0)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	9.1% (1)	3.18
Require growth policies consider natural and man-made hazard	20.0% (2)	<b>30.0%</b> <b>(3)</b>	<b>30.0%</b> <b>(3)</b>	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	3.40
Create a state funded grant program to assist with the 25% match for local governments	27.3% (3)	<b>45.5%</b> <b>(5)</b>	9.1% (1)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	9.1% (1)	2.73
Coordinate local plan development	18.2% (2)	<b>36.4%</b> <b>(4)</b>	27.3% (3)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	2.91
Provide technical assistance with											

hazard mapping for rural communities without GIS capabilities	27.3% (3)	9.1% (1)	45.5% (5)	9.1% (1)	0.0% (0)	0.0% (0)	9.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.82
	answered question										
	skipped question										

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
										Response Count	
											1
	answered question										1
	skipped question										11

Goal: Mitigate the potential loss of life and property from flooding.											
	High				Medium					Low	Rating Average
Develop and improve upon model floodplain ordinances for local governments	10.0% (1)	30.0% (3)	20.0% (2)	0.0% (0)	20.0% (2)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	10.0% (1)	4.1
Develop mapping for unmapped flood prone areas	30.0% (3)	40.0% (4)	0.0% (0)	10.0% (1)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	3.0
Update floodplain mapping of mapped areas	22.2% (2)	33.3% (3)	22.2% (2)	0.0% (0)	11.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	11.1% (1)	3.2
Establish a schedule for NFIP map reviews and updates	20.0% (2)	30.0% (3)	30.0% (3)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	3.2
Provide outreach and technical assistance in joining the NFIP Community Rating System for reducing flood insurance premiums	10.0% (1)	30.0% (3)	20.0% (2)	20.0% (2)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	3.6
Increase the public awareness of flood mitigation	0.0% (0)	50.0% (5)	10.0% (1)	10.0% (1)	20.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	3.6
Reduce the number of current and future structures in the floodplain	30.0% (3)	10.0% (1)	30.0% (3)	0.0% (0)	10.0% (1)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	3.5
Prevent flooding of structures and infrastructure from inadequate storm drainage and poorly designed irrigation waterways	20.0% (2)	10.0% (1)	40.0% (4)	0.0% (0)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	3.7
Provide adequate warning of flooding events	40.0% (4)	30.0% (3)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	2.7

	<i>answered question</i>
	<i>skipped question</i>

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		1
	<i>answered question</i>	1
	<i>skipped question</i>	11

Goal: Reduce the community impacts of wildland and rangeland fires.											
	High				Medium					Low	Rating Average
Reduce fuels in the wildland urban interface	<b>60.0% (6)</b>	10.0% (1)	20.0% (2)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.9
Reduce hazardous fuels in rangeland areas	<b>40.0% (4)</b>	0.0% (0)	<b>40.0% (4)</b>	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	3.1
Accurately assess and address the current wildland urban interface problems at the subdivision level	<b>60.0% (6)</b>	10.0% (1)	10.0% (1)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	2.5
Enhance firefighting resources and improve firefighting capabilities	<b>60.0% (6)</b>	10.0% (1)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	2.4
Enhance community awareness of wildfires through education	30.0% (3)	<b>50.0% (5)</b>	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	2.5
Enhance effectiveness of response and evacuation	<b>50.0% (5)</b>	10.0% (1)	0.0% (0)	20.0% (2)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	3.0
Establish mapping or record keeping practices to support fuel management strategies	10.0% (1)	<b>50.0% (5)</b>	20.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	3.4
Minimize human-caused ignition sources in fire-prone areas	<b>40.0% (4)</b>	30.0% (3)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	10.0% (1)	3.1
Centralize fire history documentation	<b>30.0% (3)</b>	<b>30.0% (3)</b>	0.0% (0)	20.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	10.0% (1)	3.6
Develop a consistent Statewide fire risk assessment system	33.3% (3)	<b>44.4% (4)</b>	0.0% (0)	11.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	11.1% (1)	0.0% (0)	2.6
Encourage sustainable growth in wildland fire hazard areas	10.0% (1)	<b>40.0% (4)</b>	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	20.0% (2)	0.0% (0)	0.0% (0)	20.0% (2)	4.6

	<i>answered question</i>
	<i>skipped question</i>

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
	Response Count	
		0
	<i>answered question</i>	0
	<i>skipped question</i>	12

Goal: Reduce potential earthquake losses in Western Montana.											
	High				Medium					Low	Rating Average
Goal: Reduce potential earthquake losses in Western Montana.	12.5% (1)	12.5% (1)	25.0% (2)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	37.5% (3)	5.50
Provide greater enforcement of current building codes	44.4% (4)	11.1% (1)	11.1% (1)	0.0% (0)	11.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	22.2% (2)	3.78
Develop model seismic building codes	22.2% (2)	44.4% (4)	0.0% (0)	0.0% (0)	11.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	22.2% (2)	3.89
Create stronger building standards for critical facilities and structures housing vulnerable populations	44.4% (4)	11.1% (1)	11.1% (1)	11.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	22.2% (2)	3.67
Require earthquake drills in schools in Western Montana	33.3% (3)	11.1% (1)	22.2% (2)	11.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	22.2% (2)	3.89
Expand and upgrade earthquake monitoring network and reporting capabilities	44.4% (4)	11.1% (1)	0.0% (0)	0.0% (0)	22.2% (2)	0.0% (0)	0.0% (0)	11.1% (1)	0.0% (0)	11.1% (1)	3.78
Continue “Earthquake Preparedness Month” outreach activities during the month of October	22.2% (2)	33.3% (3)	11.1% (1)	0.0% (0)	0.0% (0)	11.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	22.2% (2)	4.11
Implement non-structural mitigation projects to harden State and community infrastructure from seismic hazards	12.5% (1)	37.5% (3)	0.0% (0)	0.0% (0)	12.5% (1)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	25.0% (2)	4.88
Seismically retrofit existing critical facilities and government assets	12.5% (1)	50.0% (4)	0.0% (0)	0.0% (0)	12.5% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	25.0% (2)	4.25
	<i>answered question</i>										

	<i>skipped question</i>
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Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.	
	Response Count
	0
	<i>answered question</i> 0
	<i>skipped question</i> 12

Goal: Minimize economic impacts of drought.											
	High				Medium					Low	Rating Average
Develop a system for distributing information on current conditions	30.0% (3)	10.0% (1)	<b>40.0%</b> <b>(4)</b>	0.0% (0)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.90
Continue to support the State Drought Advisory Committee	<b>30.0%</b> <b>(3)</b>	<b>30.0%</b> <b>(3)</b>	20.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	3.20
Install Statewide drought monitoring stations	<b>50.0%</b> <b>(5)</b>	20.0% (2)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	2.90
Use long-term groundwater monitoring to assess drought conditions	<b>60.0%</b> <b>(6)</b>	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	20.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	2.60
Educate farmers and ranchers in fiscally preventing drought losses	30.0% (3)	20.0% (2)	<b>40.0%</b> <b>(4)</b>	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.50
Educate farmers and ranchers in reducing physical losses during dry seasons	<b>40.0%</b> <b>(4)</b>	10.0% (1)	30.0% (3)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.50
Identify water retention projects that could lessen the effects of drought	<b>50.0%</b> <b>(5)</b>	10.0% (1)	20.0% (2)	0.0% (0)	10.0% (1)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.40
	<i>answered question</i>										
	<i>skipped question</i>										



Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											1
	answered question										1
	skipped question										11

Goal: Reduce impacts from severe winter weather.											
	High				Medium					Low	Rating Average
Distribute winter driving and survival tips	40.0% (4)	10.0% (1)	20.0% (2)	20.0% (2)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.70
Increase public awareness of winter weather hazards	50.0% (5)	10.0% (1)	20.0% (2)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.40
Create partnerships with utility companies and negotiate for shorten span distances between power poles to better withstand snow loads and severe storms	40.0% (4)	30.0% (3)	0.0% (0)	0.0% (0)	20.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	3.00
Improve communication between emergency response personnel and road departments to facilitate coordination during extreme weather	40.0% (4)	30.0% (3)	0.0% (0)	10.0% (1)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	2.80
Structurally analyze all buildings or rooms identified as shelters and strengthen these as necessary	30.0% (3)	30.0% (3)	10.0% (1)	0.0% (0)	20.0% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	3.20
	answered question										
	skipped question										

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											1
	answered question										1
	skipped question										11

Goal: Reduce impacts from Severe Summer Weather (thunderstorms, wind, hail, tornadoes)											
	High				Medium					Low	Rating Average
Install safety film on critical facilities to prevent shattering glass.	10.0% (1)	20.0% (2)	50.0% (5)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	3.70
Encourage development and enforcement of wind resistant buildings and construction codes	30.0% (3)	30.0% (3)	10.0% (1)	10.0% (1)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	3.10
Develop and implement programs to keep trees from threatening lives, property and public infrastructure during windstorm events	10.0% (1)	50.0% (5)	10.0% (1)	0.0% (0)	10.0% (1)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	3.50
	answered question										
	skipped question										

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		1
	answered question	1
	skipped question	11

Goal: Reduce losses from Hazardous Material Incidents												
	High				Medium					Low	Rating Average	F
Develop communication plan for hazardous material emergencies	70.0% (7)	0.0% (0)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.20	
Enhance information capability on types of hazardous materials traveling transportation routes	33.3% (3)	22.2% (2)	0.0% (0)	22.2% (2)	11.1% (1)	0.0% (0)	11.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	3.00	
Provide hazardous material training to emergency responders	60.0% (6)	10.0% (1)	10.0% (1)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.20	
Develop evacuation procedures for homes near transportation networks that commonly carry hazardous materials	60.0% (6)	10.0% (1)	0.0% (0)	10.0% (1)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.40	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		1
	answered question	1
	skipped question	11

Goal: Encourage mitigation of potentially devastating but historically less frequent hazards.											
	High				Medium					Low	Rating Average
Identify and map areas of greatest landslide and avalanche potential	20.0% (2)	10.0% (1)	20.0% (2)	10.0% (1)	20.0% (2)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	4.00
Create a landslide/avalanche technical committee	10.0% (1)	10.0% (1)	10.0% (1)	20.0% (2)	10.0% (1)	30.0% (3)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	4.70
Support the mitigation related goals, objectives, and actions of the Montana Homeland Security Strategic Plan	30.0% (3)	20.0% (2)	10.0% (1)	20.0% (2)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	10.0% (1)	0.0% (0)	3.30
Reduce losses from communicable disease	50.0% (5)	20.0% (2)	0.0% (0)	0.0% (0)	10.0% (1)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	3.00
Increase awareness of risks from communicable disease	40.0% (4)	30.0% (3)	10.0% (1)	0.0% (0)	10.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	10.0% (1)	2.80
	answered question										
	skipped question										

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		1
	answered question	1
	skipped question	11

Please indicate how long it took you to complete the survey.			
		Response Percent	Response Count
5 minutes	<div></div>	10.0%	1
10 minutes		0.0%	0
15 minutes	<div></div>	20.0%	2
20 minutes	<div></div>	20.0%	2
30 minutes	<div></div>	30.0%	3
Greater than 30 minutes	<div></div>	20.0%	2
	answered question		10
	skipped question		2

## District 6 On-Line Survey - What improvements do you think could be made to the plan?

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Comment Text		Response Date
 Find	1. update weather information	Thu, 6/7/07 1:31 PM
 Find	2. Updates with recent hazardous events since the plan was last finished. Listing of mitigation activities that have been completed throughout the state. Reevaluate existing mitigation strategies and add new ones to the list. A section could be added on current StormReady communities and counties in the state. There are a lot of them that have done this. <a href="http://www.weather.gov/stormready">http://www.weather.gov/stormready</a>	Thu, 5/24/07 6:32 AM
 Find	3. none	Thu, 5/24/07 5:34 AM
 Find	4. dividing the hazards by region of the state rather than an overall state plan. Also, looking at all the PDM plans from the counties and working the state plan from the county plans.	Wed, 5/23/07 1:57 PM
 Find	5. Ag hazards have a great deal of effect on the citizens of Montana and the economy and should be addressed.	Wed, 5/23/07 1:55 PM
		10 responses per page 

## District 6 On-Line Survey - Suggested New Goals

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Comment Text		Response Date
 Find	1. Goals are OK	Thu, 6/7/07 1:37 PM
 Find	2. On the second option above, it depends on how this is done. ie. the money doesn't always seem to get to the locals in eastern MT. But, if there is a person at the state level who is helping the locals fill out the grant applications to get money for their jurisdictions, that would be very helpful. These folks are rarely full time, and they have so many administrative/bureacratic forms to fill out as it is. It would be great for the SHMO to come out to each DES district at their meetings, and ask the DES Coordinators what their mitigation items are from their local plans, and work on a plan on action to get some of the doable projects done.	Thu, 5/24/07 7:15 AM
 Find	3. covers it all	Thu, 5/24/07 5:43 AM
 Find	4. Maximize the mitigation efforts to control the Bison that carry deseases into Montana. Mitigate the potential for loss from quarantined cattle traveling through the state from Canada.	Wed, 5/23/07 2:20 PM
		10 responses per page 

## District 6 On-Line Survey - Other Goal 1 Mitigation Projects

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Comment Text		Response Date
 Find	1. We already have a state EAS plan, and it is currently in its first review and update. We need a way for counties to be able to issue their own emergency messages though, and not all broadcast stations can utilize EAS like larger population areas can. It would be great to see local/cell phone providers provide warning messages to a persons cell phone or home phone. (reverse 911 type system that doesn't	Thu, 5/24/07 9:59 AM
 Find	2. implement as soon as possible	Thu, 5/24/07 5:48 AM
		10 responses per page 



## Districts 6 On-Line Survey - Other Goal 2 Mitigation Projects

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Comment Text		Response Date
 Find	<p>1. The USGS has had funding cuts and river gages have been turned off. There are several locations in Northeast Montana that really could use an automated gage, including Malta and Glasgow. These sites have wire weight gages that a person has to manually read, which can be a safety hazard when cars are flying by. NOAA has some grant funding for AFWS (automated flood warning systems) grants that pay for hydrological monitoring systems. (400k in 2006) The state or counties need to apply for this grant through: <a href="http://www.grants.gov/search/search.do?mode=VIEW&amp;oppId=9957">http://www.grants.gov/search/search.do?mode=VIEW&amp;oppId=9957</a> Perhaps a "Lower Milk River Coalition" should be formed to try and obtain funding for these two gage sites. StormReady in all counties/reservations. Require NOAA Weather Radio placement in all state, federal and local government offices. In 2006 and 2007, NOAA/DHS and D.O.Education placed NOAA Weather Radios in every public school, college/university and private school in the state. Voluntary locations a county/tribe could work on include putting them in restaurants, gas stations, dept stores, day cares, movie theaters, baseball fields, golf courses etc. Some of the current NOAA Weather Radio transmitters are getting older and don't cover as big an area as they could. ie. Glendive, MT is a 100 watt transmitter. If it could be upgraded to 300 Watts, it would cover a larger area, including the town of Wibaux which has no broadcast of emergency messages at all. Valley County held a fundraiser in December 2006 to get enough money to buy a 100 watt exciter to cover the Opheim community. This transmitter will be installed early this summer by the NWS when we receive the FCC license. One last item is that Montana takes part in the CoCoRaHS (Community Collaborative Rain, Hail and Snow Network) (<a href="http://www.cocorahs.org">www.cocorahs.org</a>). This is a program of volunteers who report their precipitation daily. This is really helping fill in holes in our observation systems across the state. John Pulasky of the Northern Ag Network and OurMontana.org is the organizer of the program in Montana and is hoping that some of this data can help supplement precipitation for the state drought advisory committee.</p>	Thu, 5/24/07 9:59 AM
		10 responses per page 

## District 6 On-Line Survey - Other Flood Mitigation Projects

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Comment Text		Response Date
 Find	1. The StormReady program allows 25 points towards the CRS points that a community gets. See previous comments...they relate to this as well.	Thu, 5/24/07 10:02 AM
		10 responses per page 

## District 6 On-Line Survey - Other Drought Mitigation Projects

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Comment Text		Response Date
 Find	1. The State of Montana is one of the forerunners in drought activities, and that is recognized even in Washington D.C. The State DAC is well represented by several agencies, and they do an excellent job receiving input from the local communities. It's webpage is full of information, and easy to use. The media covers the meetings pretty well also.	Thu, 5/24/07 10:17 AM
		10 responses per page 

## District 6 On-Line Survey - Other Hazardous Material Mitigation Projects

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Comment Text		Response Date
 Find	1. Communities need to have EAS capabilities to be able to get the message out to the public as soon as possible. Currently the NWS is the middle man here, but that causes a delay with us having to get the information, type it up and send it out. And, we may need clarification. HazCollect is an NWS/DHS project that has unfortunately taken longer than we'd like to be put to operational use, but it has a strong potential in the future for MT communities to use it for emergencies such as HazMat.	Thu, 5/24/07 10:17 AM
		10 responses per page 

## District 6 On-Line Survey - Other Mitigation Projects for Less Frequent Hazards

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Comment Text		Response Date
 Find	1. Improve surveillance of communicable disease by educating the general population about the importance of reporting disease and how to report.	Wed, 5/23/07 3:03 PM
		10 responses per page 

## District 6 On-Line Survey - Other Severe Summer Weather Mitigation Projects

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Comment Text		Response Date
 Find	1. Having a community clean up day during Earth Day would be a great idea to have loose debris cleaned up. Schools used to help with this, but the fear of finding drug needles and bottles of urine on the sides of the roads have stopped this practice in many locations. Statewide participation in Severe Weather Awareness Week is essential as well...again, getting the governor to declare it SWAW would be helpful and perhaps garner more media attention on how people need to be prepared ahead of time, and also what to do when the warnings are issued.	Thu, 5/24/07 10:17 AM
		10 responses per page 

## District 6 On-Line Survey - Other Severe Winter Weather Mitigation Projects

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Comment Text		Response Date
 Find	1. Outreach is always important, but getting people to act is another story. How many people actually carry winter survival kits in their vehicles? A partnership with a private company (home depot/wal-mart etc) would be a good thing with the kits already put together and sold at a reasonable price (www.getreadygear.com could maybe provide the kits in bulk?) Counties could sell these at health fairs, just like buying a first aide kit. People know the basics of what they need, but sometimes they need the extra push to actually do it...by having home and vehicles kits available at their local stores all ready to go may prompt them to buy it and utilize it. The NWS needs to do a better job working with state DES during our Winter Weather Awareness weeks (all the weeks actually). In the past (5+ years ago) we tried to get the Governor to declare it "Winter Weather Safety Week" like other states do, but previous administrations wouldn't do it. Perhaps its time for us to try that again?	Thu, 5/24/07 10:17 AM
		10 responses per page 

## District 6 On-Line Survey-Impact of Future Development on Communicable Disease Hazard

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Comment Text		Response Date
 Find	1. impact	Thu, 6/7/07 1:35 PM
 Find	2. More people spreading diseases affect our medical responders	Thu, 5/31/07 9:42 PM
 Find	3. High impact due to distance from large population centers and difficulty obtaining enough supplies.	Thu, 5/24/07 6:54 AM
 Find	4. More people...more chances to spread disease.	Thu, 5/24/07 6:39 AM
 Find	5. greater potential	Thu, 5/24/07 5:40 AM
 Find	6. Always present as a risk	Wed, 5/23/07 2:46 PM
 Find	7. Increased population numbers increase the risk.	Wed, 5/23/07 2:10 PM
 Find	8. none	Wed, 5/23/07 2:02 PM
		10 responses per page 



## District 6 On-Line Survey-Impact of Future Development on Drought Hazard

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Comment Text		Response Date
 Find	1. impact	Thu, 6/7/07 1:35 PM
 Find	2. This increases the risk of wildfires and reduces that availability of water to fight fires.	Thu, 5/31/07 9:42 PM
 Find	3. Creates poverty in the region	Thu, 5/24/07 2:24 PM
 Find	4. high economic impact.	Thu, 5/24/07 6:54 AM
 Find	5. More competition for water which is already a large debate. Without the St. Marie Canal, the Milk River would be dry most of the summer from about Havre-Dodson area.	Thu, 5/24/07 6:39 AM
 Find	6. more water use	Thu, 5/24/07 5:40 AM
 Find	7. Annual rainfall leaves little wiggle room. Not enough precipitation or little rain in the growing season and we have drought.	Wed, 5/23/07 2:46 PM
 Find	8. Increased population numbers would mean that we have less land for agriculture and usually the best land goes under a house so the drought impact would be increased.	Wed, 5/23/07 2:10 PM
 Find	9. wells running dry, less water for cattle and industry	Wed, 5/23/07 2:02 PM
		10 responses per page 

## District 6 On-Line Survey-Impact of Future Development on Earthquake Hazard

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Comment Text		Response Date
 Find	1. impact	Thu, 6/7/07 1:35 PM
 Find	2. No historical evidence that our area would be highly impacted.	Thu, 5/24/07 6:54 AM
 Find	3. none	Thu, 5/24/07 5:40 AM
 Find	4. minimal risk	Wed, 5/23/07 2:46 PM
 Find	5. The earthquake factor would change but the number on individuals affected would be increased.	Wed, 5/23/07 2:10 PM
 Find	6. little	Wed, 5/23/07 2:02 PM
		10 responses per page 

## District 6 On-Line Survey-Impact of Future Development on Flooding Hazard

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Comment Text		Response Date
 Find	1. impact	Thu, 6/7/07 1:35 PM
 Find	2. No large dams in our area; Lewistown has a mill ditch which has lessened the impact of flooding.	Thu, 5/24/07 6:54 AM
 Find	3. There is some light development below Fort Peck Dam. There are also many communities that would be impacted in a dam failure there.	Thu, 5/24/07 6:39 AM
 Find	4. some/need laws for subdivisions	Thu, 5/24/07 5:40 AM
 Find	5. It can happen but with a dam on the Poplar river in Canada the risk is reduced. Very few people live by the river.	Wed, 5/23/07 2:46 PM
 Find	6. We have very little flooding problems but if the one large dam failed and homes were along the river instead of pasture land then we could have major problems.	Wed, 5/23/07 2:10 PM
 Find	7. flood plain management will be a priority	Wed, 5/23/07 2:02 PM
		10 responses per page 

## District 6 On-Line Survey-Impact of Future Development on Hazardous Material Incidents

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Comment Text		Response Date
 Find	1. impact	Thu, 6/7/07 1:35 PM
 Find	2. We have many missile silos and frequently have military convoys through our county.	Thu, 5/24/07 6:54 AM
 Find	3. same	Thu, 5/24/07 5:40 AM
 Find	4. Fertilizer storage is a risk	Wed, 5/23/07 2:46 PM
 Find	5. Increased problems due to the materials needed by an increased population and the trafficking of drugs and chemicals.	Wed, 5/23/07 2:10 PM
 Find	6. as more people build in this area there is more chance of hazmat impacting the citizens	Wed, 5/23/07 2:02 PM
		10 responses per page 

## District 6 On-Line Survey-Impact of Future Development on Landslide Hazard

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Comment Text		Response Date
 Find	1. no impact	Thu, 6/7/07 1:35 PM
 Find	2. There are a large number of subdivisions being developed in our area-if these are not planned for properly, there could be some impact.	Thu, 5/24/07 6:54 AM
 Find	3. some/need laws for subdivisions	Thu, 5/24/07 5:40 AM
 Find	4. No	Wed, 5/23/07 2:46 PM
 Find	5. very little effect	Wed, 5/23/07 2:10 PM
 Find	6. none	Wed, 5/23/07 2:02 PM
		10 responses per page 

## District 6 On-Line Survey-Impact of Future Development on Severe Summer Weather Hazards

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Comment Text		Response Date
 Find	1. impact	Thu, 6/7/07 1:35 PM
 Find	2. This can produce flash floods that people don't think about here, and thunderstorms create numerous fires here every year.	Thu, 5/31/07 9:42 PM
 Find	3. High likelihood of severe weather based on history-impact on community would most likely be financial.	Thu, 5/24/07 6:54 AM
 Find	4. none	Thu, 5/24/07 5:40 AM
 Find	5. always a risk in the summer	Wed, 5/23/07 2:46 PM
 Find	6. The events wouldn't change but the fact the people would be there to witness the events and be in their destructive path would increase the incident of severe weather events.	Wed, 5/23/07 2:10 PM
 Find	7. could impact the citizens and as more people there could be more problems encountered.	Wed, 5/23/07 2:02 PM
		10 responses per page 

## District 6 On-Line Survey-Impact of Future Development on Terrorism Hazard

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Comment Text		Response Date
 Find	1. impact	Thu, 6/7/07 1:35 PM
 Find	2. Missile silos could be targeted.	Thu, 5/24/07 6:54 AM
 Find	3. population increases/more radicals	Thu, 5/24/07 5:40 AM
 Find	4. Possible but unlikely	Wed, 5/23/07 2:46 PM
 Find	5. Increased populations could trigger increased violent acts and terrorism.	Wed, 5/23/07 2:10 PM
 Find	6. MT is historically a good place to come if you do not want to be found or if you realize there is little law enforcement for a large area. This will lead to more unknowns in the state	Wed, 5/23/07 2:02 PM
		10 responses per page 

## District 6 On-Line Survey-Impact of Future Development on Volcanic Eruption Hazard

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Comment Text		Response Date
 Find	1. on impact	Thu, 6/7/07 1:35 PM
 Find	2. None.	Thu, 5/24/07 6:54 AM
 Find	3. none	Thu, 5/24/07 5:40 AM
 Find	4. No	Wed, 5/23/07 2:46 PM
 Find	5. no effect	Wed, 5/23/07 2:10 PM
 Find	6. little	Wed, 5/23/07 2:02 PM
		10 responses per page 



## District 6 On-Line Survey-Impact of Future Development on Wildfire Hazard

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Comment Text		Response Date
 Find	1. impact	Thu, 6/7/07 1:35 PM
 Find	2. Protection of new homes and more people with out more equipment	Thu, 5/31/07 9:42 PM
 Find	3. Surrounded by mountain ranges-impact would be mostly financial	Thu, 5/24/07 6:54 AM
 Find	4. Urban-Wildland interface issues.	Thu, 5/24/07 6:39 AM
 Find	5. increased population/more risks	Thu, 5/24/07 5:40 AM
 Find	6. Drought causes risk of fires. They happen every year.	Wed, 5/23/07 2:46 PM
 Find	7. Individuals building in the forest with very little defensible space would increase the frequency of events and the costs to protect these homes.	Wed, 5/23/07 2:10 PM
 Find	8. mitigation should be a priority, or better planning is needed in the subdivision regs.	Wed, 5/23/07 2:02 PM
		10 responses per page 

## District 6 On-Line Survey-Impact of Future Development on Severe Winter Weather Hazards

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Comment Text		Response Date
 Find	1. impact	Thu, 6/7/07 1:35 PM
 Find	2. Problems on accessing new subdivisions	Thu, 5/31/07 9:42 PM
 Find	3. Avalanche not a huge concern, but winter storms can be severe and impact community in a number of ways-schools closing, people stranded, large elderly population unable to access needed services.	Thu, 5/24/07 6:54 AM
 Find	4. none	Thu, 5/24/07 5:40 AM
 Find	5. Blizzards happen nearly every year along with the below zero temperatures.	Wed, 5/23/07 2:46 PM
 Find	6. People are not prepared for thes events especially those that move out here form the cities. Increasd population numbers would trend to more assistance/incidents involving individuals in winter storm	Wed, 5/23/07 2:10 PM
 Find	7. more development may see an impact from winter storms but education of newcomers to the state is needed	Wed, 5/23/07 2:02 PM
		10 responses per page 

**2007 UPDATE TO THE STATE OF MONTANA  
MULTI-HAZARD MITIGATION PLAN AND  
STATEWIDE HAZARD ASSESSMENT**

**Mitigation Projects**

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 1** - Maximize the use of mitigation actions that prevent losses from all hazards.

**OBJECTIVE 1.1** - Increase readiness for the protection of life and property during an event.

### **Daniels County**

High Priority

- Install pigtails (electrical wiring) and 2-way switches at critical facilities to accommodate mobile generators.
- Obtain mobile generators to pump fuel for response vehicles.

### **Fergus County**

High Priority

- Partner with other organizations and agencies with similar goals to promote disaster resistant building codes and insure compliance with floodplain regulations for new and existing buildings and infrastructure.

Medium Priority

- Identify and pursue funding opportunities to mitigate Fergus County's communications problems including radio repeaters, radios and all communication issues.
- Work with community organizations and other neighborhood groups to establish Community Emergency Response Teams.

### **Fort Peck Reservation**

High Priority

- Provide training for first responders.
- Purchase mobile generators for emergency response activities.

Medium Priority

- Install pigtails (electrical wiring) at shelters and critical facilities to accommodate mobile generators.

### **Judith Basin County**

Medium Priority

- Obtain road signage for rural addressing system.
- Recruit and provide training (CERT and BERT) for volunteer response personnel.
- Look into getting better cell phone coverage in County.
- Obtain portable radios for emergency responders.

### **Petroleum County**

Low Priority

- Replace emergency vehicles.

### **Phillips County**

High Priority

- Develop map of ranch roads to enhance response efforts.

Medium Priority

- Obtain mobile generators to use around County as needed.

Low Priority

- Install pigtails at shelters to accommodate mobile generators.
- Develop alternate escape route for community of Zortman.
- Improve radio communication systems.

### **Roosevelt County**

High Priority

- Purchase mobile generators to provide alternate power for critical facilities.

Medium Priority

- Provide training for first responders.
- Install pigtails (electrical wiring) at shelters and critical facilities to accommodate mobile generators.

### **Sheridan County**

High Priority

- Develop GIS system to manage resource protection including procurement of computer and training.
- Provide AWOS or ASOS system at airport for air ambulance.
- Provide generators for wells and lift stations in Plentywood, Antelope and Reserve.

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 1** - Maximize the use of mitigation actions that prevent losses from all hazards.

**OBJECTIVE 1.1** - Increase readiness for the protection of life and property during an event.

### **Sheridan County**

#### Medium Priority

- Obtain mobile generator for town of Westby.
- Upgrade utility poles with shorter span distances.
- Install pigtailed (electrical wiring) at shelters to accommodate mobile generators.

### **Valley County**

#### High Priority

- Recruit EMT volunteers through public outreach.
- Provide training to first responders.
- Install one-way antennae in Opheim to receive weather broadcasts from NOAA.
- Provide generator for water treatment plant, lift station, pumping stations.

#### Medium Priority

- Tie into Dry Prairie pipeline for backup water supply for Glasgow.

**OBJECTIVE 1.2** - Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is.

### **Daniels County**

#### High Priority

- Rebroadcast NOAA weather channel on local KCGM radio station.
- Buy weather radios for various critical facilities.
- Provide weather radios at discount to area residents.
- Obtain generator for radio station.
- Obtain emergency generators to power sirens.

#### Medium Priority

- Update sirens system in rural communities.

### **Fort Peck Reservation**

#### High Priority

- Upgrade siren systems in all communities.
- Purchase weather radios for critical facilities (consider solar radios). Provide weather radios at discount to rural residents.

### **Judith Basin County**

#### High Priority

- Equip critical facilities with NOAA Radios.

#### Medium Priority

- Provide a warning system for the community of Raynesford.
- Implement E911 reverse notification system.
- Update warning systems in schools.
- Obtain a HAM radio for the County Emergency Operations Center.

### **Petroleum County**

#### Low Priority

- Upgrade radio cell tower.

### **Phillips County**

#### High Priority

- Obtain/upgrade sirens for all communities and include a public awareness campaign, along with installation of new sirens.
- Obtain NOAA weather radios for critical facilities.

#### Low Priority

- Expand NOAA Weather Radio Reception to WhiteWater.
- Obtain emergency generator for Dodson school.

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 1** - Maximize the use of mitigation actions that prevent losses from all hazards.

**OBJECTIVE 1.2** - Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is.

### **Roosevelt County**

#### High Priority

- Upgrade siren systems in all communities.
- Implement local warning system (like channel 15) for local communities.

### **Sheridan County**

#### High Priority

- Update sirens system in Plentywood and in rural communities.
- Purchase weather radios for critical facilities (consider solar radios). Provide weather radios at discount to rural residents.

#### Medium Priority

- Implement reverse 911 system for outlying towns.

### **Valley County**

#### High Priority

- Update siren system in Glasgow, Fort Peck, Richland, Opheim, Nashua and Hinsdale.
- Obtain RTV weather warning equipment for the three channels in Valley County.
- Enhance NOAA broadcasts to include northern Valley County by installing one-way antennae in Opheim.
- Upgrade emergency advisory equipment at radio station.
- Provide weather radios or scanners at discount to area residents.
- Buy weather radios for various critical facilities.

#### Medium Priority

- Install antennae west of The Pines for ham radio communication.
- Obtain EAS equipment for the local PBS station.

**OBJECTIVE 1.3** - Increase the public awareness of hazards.

### **Fergus County**

#### Medium Priority

- Educate individuals and businesses on the benefits of preparedness, the NFIP and engaging in mitigation activities in areas identified to be at risk through hazard mapping.
- Encourage the development of unifying organizations to ensure communication and dissemination of natural hazard mitigation information.
- Conduct, train and exercise for preparedness and natural hazards awareness programs for schools.
- Conduct workshops for public and private sector organizations to raise the awareness of preparedness and mitigation activities and programs.
- Encourage private property owners to upgrade their bridges and culverts to support weight of fire trucks and emergency vehicles.

### **Judith Basin County**

#### High Priority

- Conduct training and evacuation exercises with all communities.
- Identify and educate public on location of emergency shelters.
- Establish programs for county youth involvement in hazard risk awareness and reduction.
- Provide education to public on severe weather risk reduction.

**OBJECTIVE 1.4** - Continuously improve hazard assessments and the associated evaluation of vulnerabilities from all hazards.

### **Fergus County**

#### High Priority

- Integrate the Fergus County Mitigation Plan into current capital improvement plans ensuring that new development does not encroach on known hazard areas.
- Develop updates for the Natural Hazards Mitigation Action Plan based on new information.

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 1** - Maximize the use of mitigation actions that prevent losses from all hazards.

**OBJECTIVE 1.4** - Continuously improve hazard assessments and the associated evaluation of vulnerabilities from all hazards.

### **Fergus County**

#### Medium Priority

- Establish measurable standards to evaluate and monitor mitigation policies and programs providing a mechanism to update and revise the Mitigation Plan.
- Conduct a full review of the Natural Hazards Mitigation Action Plan every 5 years by evaluating mitigation successes, failures, and areas that were not addressed.
- Work with city and town councils to identify and address future risks and mitigation projects.
- Assist with the identification of areas that are at high risk due to decay and mitigate that risk.
- Improve communication between Montana Dept. of Transportation and the County Road Dept. and Utility providers and the Montana Dept. of Transportation.
- Oversee implementation of the Mitigation Plan.

### **Judith Basin County**

#### High Priority

- Increase involvement of LEPC in all communities.

**GOAL 2** - Increase State's capability to provide and assist locals with mitigation opportunities.

**OBJECTIVE 2.2** - Promote mitigation through supportive legislation and funding.

### **Fergus County**

#### High Priority

- Use the Mitigation Plan to help develop the County's Growth Plan and Subdivision Regulations to protect life and property from natural disasters and hazards through planning strategies that restrict development in areas of known hazards.

**GOAL 3** - Reduce the community impacts of wildland and rangeland fires.

**OBJECTIVE 3.1** - Enhance firefighting resources and improve firefighting capabilities.

### **Daniels County**

#### High Priority

- Construct a fire break network around towns and for certain CRP locations.
- Develop alternate water supplies to fight fires in towns.
- Increase water storage capacity to enhance fire fighting capability.

#### Medium Priority

- Install dry hydrants in fields and develop access roads.
- Recruit for volunteer fire departments.

### **Judith Basin County**

#### Medium Priority

- Enhance incident command system/NIMS compliance.
- Develop a formal rural fire coordinator position within the County to manage overhead responsibilities across all county fire districts
- Enhance radio availability in each fire district, link into existing dispatch, and improve range within the regions, update to new digital narrow band frequency adopted by federal and state agencies.
- Establish means to recruit and sustain emergency responders.
- Increase training and capability of fire fighters.
- Perform facility improvements, heating, storage, and maintenance including construction of an Essential Services building in Geyser for water tenders.
- Develop regional water system with dry hydrants in each community.
- Acquire equipment needed for wildland and structure fire fighting including a larger fire tender for Geyser VFD.

### **Petroleum County**

#### High Priority

- Train fire personnel on GPI, GPS and ArcView.

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 3** - Reduce the community impacts of wildland and rangeland fires.

**OBJECTIVE 3.1** - Enhance firefighting resources and improve firefighting capabilities.

### **Petroleum County**

#### High Priority

- Build heated garage in north county for fire vehicles.
- Identify all water sources in the county.

### **Phillips County**

#### High Priority

- Provide radios to farmers and ranchers who respond to rural grass fires.
- Identify appropriate locations for the installation of dry hydrants in the County.
- Obtain digital radios for fire fighters.
- With cooperators, provide classroom or video fire suppression training for rural area citizens and County employees who will respond to wildland fires.

#### Medium Priority

- Provide training to farmers and ranchers on fire fighting techniques.

#### Low Priority

- Obtain back-up generator for Dodson town well.
- Obtain SCBAs (self contained breathing apparatus) for fire departments.

### **Sheridan County**

#### Medium Priority

- Update water distribution system in old section of Plentywood - very poor water flow due to undersized pipes.
- Construct fire-proof buildings for generators at pumping stations.
- Provide training to first responders.
- Increase water storage capacity in Medicine Lake, Outlook and Westby.
- Provide generator to well in Outlook and Westby.

### **Valley County**

#### High Priority

- Provide additional training to fire fighters.
- Purchase turn-out gear for Opheim.
- Increase pressure at water hydrants in Glasgow.

#### Medium Priority

- Install dry hydrants in fields around Opheim.

#### Low Priority

- Provide training and equipment for fighting oil-field fire in Lustre.

**OBJECTIVE 3.2** - Reduce fuels in the wildland urban interface (WUI), rangeland and communities.

### **Daniels County**

#### High Priority

- Remove old abandoned buildings around town.
- Institute weed control measures (mowing) around town.
- Negotiate over haying CRP land that surrounds all towns in County.

### **Fort Peck Reservation**

#### High Priority

- Institute weed control measures (mowing) along railroad.
- Negotiate over haying of CRP land.

### **Judith Basin County**

#### Medium Priority

- Remove abandoned structures in all communities including abandoned elevators in Raynesford and Benchland.
- Mow and clean up fuels in all communities, especially around Utica.
- Conduct fuels mitigation of the FEMA "Emergency Evacuation Routes".



# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 3** - Reduce the community impacts of wildland and rangeland fires.

**OBJECTIVE 3.2** - Reduce fuels in the wildland urban interface (WUI), rangeland and communities.

### Judith Basin County

#### Medium Priority

- Develop a fire break between Raynesford and CRP lands bordering on the northwest.
- Perform community defensible zone WUI treatments.
- Develop a fire break between Geyser and CRP lands bordering on the south.
- Improve access through road-side fuels management, especially Dry Wolf Road.
- Coordinate with other agencies for implementation of fuels reduction projects in county fire plan.
- Maintain watered landscaping (green space) around towns to serve as fire break.

### Phillips County

#### High Priority

- Coordinate with State Regional DES and Federal partners for scheduling and attendance at Incident Command System (ICS) 100/200 and/or IS 700 or State of Montana DES training requirement.
- Coordinate with cooperators and employ fuel reduction treatments on CRP and other lands. Fuel treatments would include mechanical treatments such as mowing or plow/disk perimeters, hand piles and burning and prescribed fire or a combo of treatments.
- Continue grazing in sustainable areas by wild and domestic ungulates to reduce fuel loadings and lower potential wildfire intensity.

#### Low Priority

- Provide fire resistant building for Dodson town well. Until that is completed, remove or cover wildfire fuels next to the well house.

### Roosevelt County

#### High Priority

- Institute weed control measures (mowing) along railroad.
- Negotiate haying of CRP land.

### Sheridan County

#### High Priority

- Institute ordinance not allowing CRP within one-half mile of towns.
- Negotiate for haying of CRP land.
- Construct a fire break network for certain CRP locations.
- Remove old abandoned buildings around towns.

### Valley County

#### High Priority

- Remove old abandoned buildings in Opheim, Fort Peck and Nashua.
- Construct fire break network at the Pines and for certain CRP locations.
- Institute weed control measures (mowing/brush clearing) along railroad in Glasgow and Nashua, and around town of Opheim.
- Hay CRP fields.
- Construct fire guards (breaks) upwind of Opheim and in CRP fields.

#### Medium Priority

- Install metal roof on Fort Peck Theatre.
- Install sprinkler system in Fort Peck Theatre.

**OBJECTIVE 3.3** - Enhance community awareness of wildfires through education.

### Judith Basin County

#### Medium Priority

- Conduct youth and adult wildfire educational programs.

### Petroleum County

#### Low Priority

- Develop education programs and written material for fire mitigation.

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 3** - Reduce the community impacts of wildland and rangeland fires.

**OBJECTIVE 3.3** - Enhance community awareness of wildfires through education.

**Phillips County**

High Priority

- Implement Firewise practices through creation of defensible space around communities and private homes. Utilize standard Fire Protection Guidelines for Residential Development in the Wildland/Urban Interface. Participate in the Nat. Firewise program.

**Sheridan County**

High Priority

- Institute public education program in fire prone areas (Outlook due to railroad grade).

**Valley County**

High Priority

- Better broadcast burn day restrictions, especially during Red Flag events.

Medium Priority

- Modify railroad operations and equipment for synoptic scale high wind events.

**OBJECTIVE 3.4** - Accurately assess and address the current wildland urban interface problems at the subdivision level.

**Judith Basin County**

Medium Priority

- Conduct wildfire risk assessments of homes in identified communities.
- Develop County policy concerning access in moderate to high risk WUI areas where subdivisions are built to insure adequate ingress and egress during wildfire emergencies.
- Develop county policy concerning building materials used in high risk WUI areas on existing structures and new construction.
- Amend existing building codes to apply equally to new single housing construction as it does to subdivisions to minimize risks to firefighters.
- Perform home site treatments throughout the county.

**Petroleum County**

Medium Priority

- Home safety inspection program.

**OBJECTIVE 3.5** - Enhance effectiveness of response and evacuation.

**Judith Basin County**

High Priority

- Implement a County-wide Communications Plan.

Medium Priority

- Post FEMA "Emergency Evacuation Route" signs along the identified primary and secondary access routes in the county.
- Improve access of bridges, cattle guards, and limiting road surfaces.

**Petroleum County**

Medium Priority

- House numbers for enhanced 911.

**Phillips County**

High Priority

- Locate and identify roads that have wooden bridges within the County. Plan protection measures and alternate routes in the event of a wildfire compromising or burning these bridges.

**Sheridan County**

Low Priority

- Create alternate route for evacuation in town of Plentywood.

**Valley County**

High Priority

- Coordinate emergency response activities between railroad/city/county.

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 3** - Reduce the community impacts of wildland and rangeland fires.

**OBJECTIVE 3.5** - Enhance effectiveness of response and evacuation.

**Valley County**

Medium Priority

- Develop alternate evacuation route for Nashua (train blocks access routes).

**OBJECTIVE 3.6** - Establish mapping or record keeping practices to support fuel management strategies.

**Petroleum County**

Medium Priority

- Identify all HazMat sites in county.

Low Priority

- Train fire department personnel on grant writing.
- Upgrade fire reports.

**Phillips County**

High Priority

- Develop GPS database of water sources for fighting fires.
- Develop Type III Incident Management Team table of organization utilizing expertise within the county and adjacent counties within the MT State DES region.

**GOAL 4** - Minimize economic impacts of drought.

**OBJECTIVE 4.1** - Identify water retention projects that could lessen the effects of drought.

**Fort Peck Reservation**

Medium Priority

- Negotiate for summer releases from Fort Peck Dam.
- Develop alternate water supplies for irrigation.

**Petroleum County**

Medium Priority

- Water conservation.

**Roosevelt County**

Medium Priority

- Negotiate for summer releases from Fort Peck Dam.
- Develop additional water supplies.
- Construct Fort Peck Tribes Dry Prairie water line.

**OBJECTIVE 4.3** - Improve drought monitoring and assessments.

**Petroleum County**

High Priority

- Form local drought advisory committee.

Low Priority

- Fire suppression during drought conditions through press releases, "reader boards", identification of high risk fire areas, restricted vehicle traffic in high risk areas and cancellation of open burning permits.

**Valley County**

High Priority

- Include water equivalent measurements in routine weekly Coop observation sites.

**GOAL 5** - Mitigate the potential loss of life and property from flooding.

**OBJECTIVE 5.1** - Provide adequate warning of flooding events.

**Daniels County**

High Priority

- Obtain information on Canadian Power Plant cooling dam upstream of Scobey and develop program for alerting residents in case of emergency.

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 5** - Mitigate the potential loss of life and property from flooding.

**OBJECTIVE 5.1** - Provide adequate warning of flooding events.

**Petroleum County**

High Priority

- Review emergency operating plans for high risk and high hazard dams in Petroleum County.

Low Priority

- Update list of residences below high risk and high hazard dams and inform residents of dam failure warning system and evacuation route.

**Sheridan County**

High Priority

- Improve siren system on Box Elder Dam (above Plentywood).

Low Priority

- Minimize disruption to transportation during flooding by constructing bridge west of Plentywood.

**OBJECTIVE 5.2** - Reduce the number of current and future structures in the floodplain.

**Judith Basin County**

Medium Priority

- Create county and local floodplain ordinances.

**Sheridan County**

Low Priority

- Buy-out structures within east spillway of Box Elder Dam (above Plentywood).

**Valley County**

High Priority

- Improve subdivision regulations countywide.
- Maintain or improve the regulation of the 100-year floodplain.

**OBJECTIVE 5.3** - Prevent flooding of structures and infrastructure.

**Daniels County**

Medium Priority

- Replace old bridges and culverts and improve roads to withstand flash floods.

**Fort Peck Reservation**

Medium Priority

- Construct flood diversion in Brockton.
- Improve storm water system along Hwy 2 in Wolf Point and south side of town.

**Judith Basin County**

Medium Priority

- Construct flood control measures (dikes, channels, rip-rap).
- Improve water crossings to handle floodwater.
- Maintain water crossings so they do not become clogged with debris.

**Petroleum County**

Medium Priority

- The Winnett Director of Public Works will survey current storm drain system and determine adequacy.

**Roosevelt County**

High Priority

- Maintain diversion and low-water crossing (Culbertson).
- Maintain waterways to keep free from debris (Culbertson).
- Construct channel to handle outflow from culverts (Culbertson).

Medium Priority

- Construct diversion in Saddle Club area to slow down water prior to culverts (Culbertson).
- Improve storm water system along Hwy 2 in Wolf Point and south side of town.
- Construct flood diversion (Brockton).

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 5** - Mitigate the potential loss of life and property from flooding.

**OBJECTIVE 5.3** - Prevent flooding of structures and infrastructure.

### **Roosevelt County**

Medium Priority

- Install additional culvert in Hwy 16 north (MDT plan) [Culbertson].
- Design storm sewers for town of Culbertson to handle surface water run off.
- Install flood diversion and culverts (Froid).

### **Sheridan County**

High Priority

- Update dike at Plentywood Golf Course.

Medium Priority

- Build up road and replace culvert in conjunction with NRCS wetlands project (Dagmar area - 12 miles east of Reserve).
- Increase storm sewers in Plentywood.
- Update dike in Reserve.

### **Valley County**

High Priority

- Negotiate pre-flood season release from Fresno Dam to minimize ice jam hazard.
- Install backflow valve on Nashua storm sewer system.
- Add automated river gauge at Glasgow.
- Negotiate with FEMA to accept Nashua flood control system.
- Extend dikes along west side of Glasgow.
- Improve coordination with local, county, state and federal agencies.
- Protect public infrastructure, buildings, and public utilities.
- Minimize flood damages to buildings and personal property.
- Repair dikes around south side of Glasgow.

Medium Priority

- Upgrade dikes west of Nashua.
- Increase size of ditch behind homes in Hinsdale near Tank Coulee.
- Construct dam on Porcupine Creek to divert flow from entering Milk River.
- Measure foundation elevations of rural residences.
- Consider ways to mitigate flood impacts to Green Meadow Estates in Glasgow (subdivision located in Milk River floodplain).
- Upgrade storm sewers in Glasgow to mitigate drainage problems.
- Raise grade of north-south road in Nashua.

Low Priority

- Consider mitigations for three houses in floodplain in Nashua.

**OBJECTIVE 5.4** - Increase the public awareness of flood mitigation.

### **Petroleum County**

Low Priority

- Distribute "Protect your home from flooding" and other pertinent information to homes along the Musselshell and hold informational classes at Winnett school.

**OBJECTIVE 5.5** - Improve the effectiveness of the flood insurance programs.

### **Fort Peck Reservation**

High Priority

- Enter Wolf Point, Poplar, Brockton, Frazer and Reserve into National Flood Insurance Program.

### **Judith Basin County**

Medium Priority

- Complete floodplain mapping throughout county.

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 5** - Mitigate the potential loss of life and property from flooding.

**OBJECTIVE 5.5** - Improve the effectiveness of the flood insurance programs.

### **Petroleum County**

High Priority

- Coordinate with State of Montana to map out Musselshell floodplain.

Medium Priority

- Install ArcView on county computer and train county personnel.

### **Roosevelt County**

High Priority

- Enter Wolf Point, Poplar, Brockton, Froid and Bainville into National Flood Insurance Program.
- Determine flood elevations for town of Culbertson and update floodplain maps.

### **Sheridan County**

Medium Priority

- Perform floodplain mapping in Reserve.

### **Valley County**

High Priority

- Improve public awareness of flood risk, flood insurance and flood construction regulations.
- Improve floodplain maps.

**OBJECTIVE 5.6** - Reduce the risk of dam or levee failure.

### **Fort Peck Reservation**

Medium Priority

- Update dike in Reserve.

### **Sheridan County**

High Priority

- Perform seismic evaluation of Box Elder Dam above Plentywood.
- Install seismic equipment to detect movement on Box Elder Dam.

### **Valley County**

Low Priority

- Update diversion dams in southwest corner of County.

**GOAL 6** - Reduce impacts from severe winter weather.

**OBJECTIVE 6.1** - Increase community capabilities to mitigate winter weather hazards.

### **Judith Basin County**

High Priority

- Install electrical hook-ups (pigtails) in emergency shelters and other critical facilities and emergency shelters to accommodate portable generators.
- Obtain generator for County Courthouse.

Medium Priority

- Obtain stationary or portable generators for other critical facilities and emergency shelters.
- Obtain generator for Stanford water system.
- Obtain snow removal equipment for Stanford.

### **Petroleum County**

High Priority

- Enhance weather monitoring abilities.
- Develop programs to reduce risk to public infrastructure.

Low Priority

- Build garage to house county generator.

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 6** - Reduce impacts from severe winter weather.

**OBJECTIVE 6.1** - Increase community capabilities to mitigate winter weather hazards.

**Phillips County**

Low Priority

- Have County snow removal equipment available in Zortman.

**Valley County**

High Priority

- Provide generators for nursing homes and shelters in Glasgow.
- Identify emergency shelter in Nashua and equip with generator.
- Provide two-way switches for generators.

Medium Priority

- Purchase snowmobile as response vehicle for Nashua.

**OBJECTIVE 6.2** - Increase public awareness of winter weather hazards.

**Petroleum County**

High Priority

- Increase public awareness of severe weather and mitigation activities.

**GOAL 7** - Reduce impacts from severe summer weather.

**OBJECTIVE 7.1** - Increase community capabilities to mitigate summer weather hazards.

**Judith Basin County**

High Priority

- Install protective film on windows at critical facilities to prevent shattering of glass.

Medium Priority

- Structurally analyze all buildings or rooms identified as shelters and strengthen as necessary.

**Petroleum County**

High Priority

- Enhance strategies for debris management.

Medium Priority

- Support and encourage elect. utilities to use underground utilities.
- Develop program to keep trees trimmed.
- Develop plans to attain outstation and air strip rescue.

**Valley County**

Medium Priority

- Install web-cam on face of Fort Peck dam to enhance high wind advisory system.

**GOAL 8** - Reduce losses from hazardous material incidents.

**OBJECTIVE 8.1** - Provide education, training on haz-mat incidents and response.

**Daniels County**

Medium Priority

- Provide awareness training on meth-labs.

**Judith Basin County**

Medium Priority

- Develop an emergency transportation plan that considers key roadways and intersections.

**Petroleum County**

High Priority

- Training in HazMat procedures.
- Training in MSDS.

Medium Priority

- Adequate equipment for HazMat response.

# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 8** - Reduce losses from hazardous material incidents.

**OBJECTIVE 8.1** - Provide education, training on haz-mat incidents and response.

**Petroleum County**

Medium Priority

- Public education.

**Sheridan County**

Medium Priority

- Provide awareness training on meth labs.

**Valley County**

High Priority

- Enhance railroad chemical spill mitigation.

Medium Priority

- Provide awareness training on meth labs.
- Network with Corps of Engineers and WAPA on haz-mat preparedness planning.
- Provide training and software on hazardous materials to emergency managers.

**OBJECTIVE 8.2** - Identify and secure hazardous materials locations and transporters.

**Daniels County**

Medium Priority

- Relocate anhydrous ammonia tank currently adjacent to town of Scobey.
- Secure fertilizer and propane plants to reduce unauthorized access.

**Fort Peck Reservation**

High Priority

- Relocate anhydrous ammonia tank adjacent to Wolf Point city limits.

**Judith Basin County**

Medium Priority

- Install a railroad crossing gate and lights at the Geyser intersection.
- Improve mapping of hazardous materials fixed site locations and common transportation routes.

**Petroleum County**

Low Priority

- GPS hazmat sites.

**Roosevelt County**

High Priority

- Relocate hazardous materials storage facilities currently adjacent to city limits.

**Sheridan County**

High Priority

- Review Plentywood city ordinances regarding haz-mat truck traffic through town.

Medium Priority

- Construct bypass for haz-mat truck traffic to avoid Plentywood business district.
- Install pylons along highway adjacent to anhydrous ammonia tanks.
- Anchor and block up fuel and propane tanks in outlying towns.
- Move propane tank in Westby currently located adjacent to railroad tracks.
- Enforce proper placarding of haz-mat loads crossing into US from Canada.

**Valley County**

High Priority

- Secure bulk petroleum, propane, and anhydrous ammonia tanks with fencing.



# LOCAL MITIGATION PROJECTS

## DES DISTRICT 6

**GOAL 10** - Reduce the likelihood of communicable disease outbreaks.

**OBJECTIVE 10.1** - Reduce losses associated with a human health emergency.

**Daniels County**

Medium Priority

- Investigate mitigation options for West Nile Virus.

**Sheridan County**

Medium Priority

- Investigate mitigation options for West Nile Virus and Hanta Virus

**Valley County**

Medium Priority

- Investigate mitigation options for West Nile Virus.

**OBJECTIVE 10.2** - Reduce losses associated with livestock disease outbreaks and agricultural emergencies.

**Judith Basin County**

Medium Priority

- Provide training to first responders on response to biological hazards to livestock and crops.
- Develop several holding facilities within Judith Basin County to quarantine affected livestock.

**GOAL 11** - Encourage mitigation of potentially devastating but historically less frequent hazards.

**OBJECTIVE 11.1** - Prevent losses from acts of terrorism, violence and civil unrest.

**Fergus County**

High Priority

- Encourage local governments, citizens and businesses to pursue Terrorism Awareness and Homeland Security Training that enhance overall capabilities and self-preparedness.
- Identify and pursue funding opportunities to mitigation Fergus County's terrorism program.
- Assess and develop terrorism responses capabilities necessary to support Fergus County, mutual aid to support other counties, the state and our nation.
- Encourage interaction with Malmstrom Air Force Base to mitigate the possibility of nuclear weapons in transport and missile site events/activities involving transportation and missile sites.
- Encourage the implementation of NIMS throughout the county.
- Encourage Malmstrom Air Force Base to have a representative as a Local Emergency Planning Committee member.

**Fort Peck Reservation**

Medium Priority

- Install fencing and alarm system at water treatment plant and water supply wells.

**Roosevelt County**

Medium Priority

- Install fencing and alarm system at water treatment plant and water supply wells.
- Purchase equipment for emergency response agencies to respond to chemical, biological and terrorist incidents.

**Sheridan County**

Medium Priority

- Install fencing and alarm system at water treatment plant and water supply wells.

**Valley County**

Medium Priority

- Install fencing and alarm system at water treatment plant and water supply wells.

**OBJECTIVE 11.3** - Identify and reduce losses from volcanic activity.

**Petroleum County**

High Priority

- Public education.

## LOCAL MITIGATION PROJECTS

### DES DISTRICT 6

**GOAL 11** - Encourage mitigation of potentially devastating but historically less frequent hazards.

**OBJECTIVE 11.3** - Identify and reduce losses from volcanic activity.

#### **Petroleum County**

Medium Priority

- Identify at risk population.

Low Priority

- Monitoring volcanic activity.